











The Home Chemist

A KEY TO HONEST WEALTH

Вy

PROF. DUKE H. BASHFORD

MANUFACTURING AND ANALYTICAL CHEMIST

Author of "Standard Formulas"
"Syrups and Ciders;" "Drinking Water;"
"Extracts and How to Make Them;"
"Assaying Made Easy;" Etc., Etc.

THE HOME CHEMICAL &
PUBLISHING COMPANY...
WAUKESHA, WIS.

MILWAUKEE:
Dawe Bros. Printing Company
1899



(10)

43633

Copyrighted by the HOME CHEMICAL AND PUBLISHING CO. 1899

BECOND COPY,



712

INTRODUCTION.

The author of this little but valuable book has had 30 years of practical experience in Europe and the United States, in almost every branch of manufacturing and analytical chemistry.

His chief aim in this work is to write a book for the masses, a book in common every-day plain English, and free from technical language. A large majority of the formulas are entirely new and now published for the first time.

Many of the formulas in this little work have sold for several hundred dollars each, in fact, will prove nuggets of gold in the hands of any intelligent man, woman or child, and will prove a pleasure as well as a profit.

THE AUTHOR.

INDEX.

	6
To soften Water	10
Milk	.11
Bogus Cream	.14
Ciders	14
Apple Cider	.15
Orange Cider	15
Pear Cider	
Cherry Cider or Phosphate	.16
Imitation Lemonade	
Root Beer	
Compound Syrups for Soda Water	18
Lemon Syrup	.18
Orange Syrup	.18
Vanilla Syrup	.18
Cherry Syrup	19
Saccharine	
Saccherine Syrup No. 1	
Saccherine Syrup No. 2	20
Glucose	
Glucose Syrups	21
Common Syrup No 1.	
Common Syrup No. 2	
Honey Syrup	22
New Orleans Syrup.	22
Bogus Honey	23
Bogus Honey No. 2.	
Sugar Syrups	
Simple Syrup	
Golden Syrup	
Imitation Honey	
Maple Syrup	
Caramel or Sugar Coloring	
Imitation Jellies	
Apple Jelly	
Strawberry Jelly	
Banana Jelly	
Pear Jelly	
Cherry Jelly	27

Blackberry Jelly	.27
Acid Solution	.27
Essences	.28
Essence of Lemon	
Essence of Orange	.28
Essence of Pear	.28
Essence of Root Beer	.28
Essence of Salicylic Acid	.29
Essence of Rose	.29
Apple Essence	.29
Extract of Strawberry	2 9
Extract of Banana	.30
Vinegar	.30
Cider Vinegar	.31
Pear Vinegar	.31
White Wine Vinegar	.31
Strawberry Vinegar	
Baking Powder	
French Mustard	
Treatment for Obesity	.33
Treatment for the Drink Habit.	.36
Home Cure for Drunkennes	.38
Treatment for Emaciation	
Beer	
Bay Rum	.40
Hair Restorer	
Dandruff Cure	
Quinine Tonic	41
Rose Toilet Water	
Violet Toilet Water	
Lilac Toilet Water	
Rose Perfume	
Honey Suckle Perfume	
Sweet Lavender Perfume	
New Mown Hay Perfume	
Violet Perfume	
German Cologne	
Face Powder	
Pink Face Powder	
Tooth Powder	
Tooth Powder No. 2	45
Tooth Powder No. 3	45
Inks	45
Shoemaker's Ink	
Harness Ink	

Black Writing Ink	46
Black Writing Ink No. 2	47
Purple Ink	
Red, Blue and Green Inks	47
Mucilage	47
Mucilage No. 2	48
Laundry Blueing	48
Starch Polish	48
Starch Polish No. 2	49
Harness Dressing	49
Black Shoe Dressing	49
Russet Shoe or Harness Dressing.	49
Russet Shoe Cleaner	50
Black Shoe Polish	50
Russet Shoe Polish	51
Liquid Glue	51
Cement that will mend anything	51
Piano Polish	51
Electric Powder	52
Sealing Wax	52
Silver-plating fluid	52
Best Matches,	53
To remove Ink from paper	53
Reproduce	54
Flashlight Powder	54
Gun Powder	55
Weights and Measures	55
Dry Measure	
Fluid Measure	
Percentage of Alcohol in various Beverages	



WATER.

As we know, water is widely distributed over the earth, we never find it perfectly pure. All natural waters contain foreign substances in solution. These substances are taken up from the air or from the earth.

Good drinking water should be free from color, taste and smell, transparent and without deposit. There is no simple process whereby the quality of a water may with certainty be acertained.

A rough proximation may be arrived at, by taking the weight of the dried residue, and by the effect of incineration of its color. The permissible amounts of impurities in good drinking water, are as follows:

PARTS PER MILLION

TAKES I ER MILLION		
Total residue by evaporation		500.
Chlorine in Chlorides .		.15.
Oxygen consumed		2.
Nitrogen as free Ammonia		.02
Nitrogen as Albuminoid Amn	nonia	.05
Nitrogen as Nitrites .		none
Nitrogen as Nitrates .		15.

It has been fully established, that the wells in cities and towns are contaminated, owing to their proximity to sewers and drains and above all cess-pools.

Through impure water the ova of various intestinal worms and other entozoa are introduced into the system and prove a fruitful cause of the production of, diarrhoea, dysentery, malarial fevers, ague, typhoid fever, diphtheria, cholera, calculi, etc.

Good water taken in quantities to satisfy the thirst acts only beneficially, indeed an excess will not hurt, for it is quickly absorbed, and increasing the blood pressure, favors digestion by thus inducing a free flow of the faeces. It is a digestive agent as well as food. By the liberal use of water as a beverage, the faeces are rendered of proper consistency, the intestines maintain their normal activity, and constipation is avoided. The result of the ingestion of pure water tends to keep the kidneys clean of concretions and morbid changes, and with

the skin and lungs equally active the bodily house is well swept.

Where ever water is suspected of being contaminated it should be boiled. A better way would be to boil it and when cool, or nearly so, filter it through filter paper.

While a glass funnel is the best, a tin one will do fairly well, and your druggist will show you how to fold the filter paper. There are many styles of filters on the market, they all claim to be germ proof but are not.

All living things contain a large proportion of water, which can be driven off by heat.

The proportion of water in animal and vegetable substances is very great.

If the body of a man weighing 150 pounds was placed in an oven and thoroughly dried, there would be left only about 50 pounds of solid matter, all the rest being water. When you purchase a roast of beef weighing eight pounds, you pay for about six pounds of water and two pounds of solid matter.

The many varieties of mineral springs have their origin in the presence in the earth of certain substances which are soluble in water, common salt occurs in large quantities in different parts of the earth. As it is soluble in water, many streams and springs contain it.

Effervesent waters are such as contain some gas, usually carbonic - acid gas. Chalybeate water contains some compound of iron.

Sulphur-water contains a compound of hydrogen and sulphur, called hydrogen sulphide or sulphuretted hydrogen. Water is composed of hydrogen, 2 parts by weight and 16 parts of oxygen.

TO SOFTEN WATER.

The housewife is often greatly troubled because of the hardness of the water she uses for domestic purposes.

The following formula will be found to work like a charm and rob wash day of half its terrors.

Potash Carbonate . 4 ounces
Boiling Water . . . 1 gallon

Dissolve, and add about one tablespoonful to each gallon of water. Clothes washed in water containing the above preparation will be nice and white, and will not shrink.

MILK.

Milk is the fluid secreted by the mammary glands of the division of vertebrate animals called Mammalia.

The milk of various domestic animals is more or less used by man for food. The milk of the cow, which may be taken as typical of all others, is indeed by far the most valuable of all.

Pure milk when newly drawn, is an opaque, white fluid with a yellow tinge and sweet to the taste.

There should be a faint animal odor, due to the presence of sulphuretted hydrogen.

The specific gravity of milk should be between . 1.03. and 1.035.

Water . 86.87. Fat 3.5.

Casene and Albumen . 4.75.

Sugar . 4. Ash 7. + or 87 parts water and 13 parts solids.

When allowed to stand for a time, the lactic sugar which it contains, decomposes into lactic acid. This transformation is quite simple, consisting in the splitting up of the molecules of sugar into lactic acid. When water is added to milk, the specific gravity becomes lower.

In testing milk the lactometer alone is of no value. The quantity of cream varies from 8 to 20 per cent., but should not fall below 10 per cent.

Where the per cent. of cream is low, also the specific gravity, there is little reason to doubt the milk being adulterated. Milk containing less than 11 per cent. of solids should be looked upon as adulterated.

There are very few milk dealers who do not adulterate the milk they sell in

god in what

some way or other. Among the adulterants may be mentioned: Water, Cotton Seed Oil, Milk Sugar, Salicylic Acid, Borac Acid, Boracic Acid, Benzooric Acid, Benzooric Ether, Borax, Bi-carbonate Soda, Magnesia, Lime, Amyl Acitate, Caramel and Aniline.

A number of these preparations are Antiferments, and are used to keep the milk from souring. But they all retard digestion and are bad, to say the least, and in the writer's opinion, more than half the ailments children suffer with, are caused by impure milk.

In cities and large towns, thousands of gallons of milk are sold that never saw a cow. To-day there are men going about the country offering for sale formulas for making bogus mllk. As high as five hundred dollars is asked and received for one of these formulas.

In the windows of many restaurants in cities are placed signs something like this:

We serve cream with our coffee for five cents per cup.

BOGUS CREAM.

The formula here given makes a very good imitation cream, and is perfectly wholesome, and may be given to children without any danger whatever. In fact it makes a good wholesome diet.

Milk		•	•	½ gallon.
Corn Star	ch			1 ounce.
Eggs			•	1

Boil the milk, and allow to cool. Mix the starch with one pint of cold water. Beat egg well, and mix together.

CIDERS.

Cider when made from fruit and fresh from the press, is a nice thirst quenching and palatable beverage.

But it is safe to say, for every gallon of genuine cider sold, there are one thousand gallons of bogus placed upon the market. Imitation ciders may be manufactured that are good wholesome beverages, and taken in quantities to satisfy the thirst, are not harmful. But the bulk of the artificial product con-

tains material that makes it unfit for use as a beverage. Sweet cider fresh from the press contains no alcohol, but as it ages alcohol is formed. Hard cider contains 8 per cent. alcohol or twice as much as the highest grade of beer.

In imitation ciders as no alcohol forms, a certain per cent. of alcohol is placed in, that is where they are expected to produce a heady feeling. We give some formulas which may be used without danger and contain no alcohol.

APPLE CIDER.

Water . 1 gallon Simple Syrup . 1 quart Acid Solution . 1 ounce Sugar Coloring . . 1 teaspoonful Stir well and it is ready for use.

ORANGE CIDER. Water 1 gallon Simple Syrup . 1 quart Acid Solution . 1 ounce Essence of Orange . ½ ounce Sugar Coloring . . ½ teaspoonful Stir well.

The above makes a most delicious beverage and costs less than ten cents per gallon.

PEAR CIDER.

Water . . . 1 gallon
Simple Syrup . . 1 quart
Acid Solution . . 1 ounce
Essence of Pear . . ½ teaspoonful

Color straw color with sugar coloring.

CHERRY CIDER OR PHOSPHATE.

Quite a number of samples of cherry phosphate and cherry cider, have been sent to us at different times for analysis and we found nearly all of them to contain poisonous matter, such as Sulphuric Acid, artificial oil of bitter almonds and Aniline coloring.

The formula here given is perfectly safe and will always give satisfaction.

Water 1 gallon
Simple Syrup . . . 1 quart
Acid Solution . . . 1 ounce
Extract of Wild Cherry Bark ¼ ounce

Color red with vegetable coloring.

Of course coloring ciders does not add to their flavor, only they look much nicer.

IMITATION LEMONADE.

A most delicious beverage and can not be told from the genuine article.

Water		•	•	1	gallon
Simple S	yrup		•	1	quart
Acid Solu	ition			11/2	ounce
Essence	of Lemo	on	•	1/2	ounce
lix and it	is ready	of for	use.		

ROOT BEER.

Wate	er					1	gallo	n
Simp	le Sy	rup				1	qua	
Esse	nce o	of Roc	t Bee	r.	1	teasp	oonfi	11
Acid							ounc	
Suga	r Col	loring				1/2	ounc	e
Mix	and	you	have	a	del	ightfu	l an	ď
healthf			a					

COMPOUND SYRUPS FOR SODA WATER. LEMON SYRUP.

Simple Syrup . . 1 quart
Acid Solution . . ½ ounce
Soluble Extract of Lemon ½ ounce

Pour two or three tablespoonsfuf into a glass, fill two-thirds full with water, stir and drink.

If desired a small amount of Bicarbonate of Soda may be added which will cause it to effervess.

ORANGE SYRUP.

Simple Syrup . . 1 quart
Acid Solution . . 1/4 ounce
Soluble Extract of Orange 1/2 ounce
Use the same way as Lemon.

VANILLA SYRUP.

Simple Syrup . . 1 quart
Acid Solution . . 1 teaspoonful

Extract of Vanilla. . 1/2 ounce

Sugar Coloring . . 1 teaspoonful Mix, use same as Lemon.

CHERRY SYRUP.

Simple Syrup . . 1 quart
Acid Solution . . ¼ ounce
Extract of Wild Cherry Bark ½ ounce
Vegetable Red Coloring ¼ ounce
Mix, use same as Lemon.

SACCHARINE.

Saccharine is a product made from coal tar and was discovered by Fahlberg a few years ago.

The name is a mis-nomer however, as Saccharine means sugar, while this product is more properly speaking a spice. Refined Soluble Saccharine is over five hundred times as sweet as the best cane sugar.

One ounce being equal to 35 pounds of the best granulated sugar in sweetning power.

At the present price of sugar and Saccharine, where the latter can be used the saving is very great.

One pound Saccharine . \$ 7.50
One barrel Sugar . \$18.75
A saving of . \$11.25

Saccharine is used largely in Syrups, Jellies, wines and carbonated beverages, also artificial ciders, etc.

In diseases of the blader and kidneys, Saccharine may be used with good results.

SACCHARINE SYRUP No. 1.

Boiling water . . 1½ gallons
Saccharine . . ¼ ounce
Stir until disolved.

Makes 6 quarts syrup at a cost of about 12 cents

If sugar was used in the place of Saccharine, the cost would be:

Sugar 8 pounds . . 48 cents

Water 1 gallon

The above syrup may be used for tea, coffee, cider, soda water, root beer, etc.

In mixing this syrup an earthenware vessel is best.

SACCHARINE SYRUP No. 2.

Boiling water . . 1 gallon
Saccharine . . 1/4 ounce
Stir until dissolved.

GLUCOSE.

Glucose is made by boiling corn starch in a weak solution of sulphuric acid and then treating it with lime to neutralize the acid. Where glucose is made in a proper manner, it makes a wholesome food.

We have examined many samples of glucose and found quite a number of them contained free sulphuric acid to an alarming extent. Glucose is used largely in the manufacture of syrups, jellies, honey, candy and beer. Many preparations known as malt extracts and foods for producing fat are nothing more nor less than glucose in some form or other.

GLUCOSE SYRUPS.

Glucose not being as sweet as cane syrups Saccharine is added to supply the difference.

COMMON SYRUP.

Glucose (the best) . 15 pounds Cold Water . 1 gallon Salicylic acid solution 1 teaspoonful Mix well, costs 15 cents per gallon.

COMMON SYRUP No. 2.

Glucose . . . 15 pounds

Water . . . 1 gallon

Salicylic acid solution 1 teaspoonful

Sugar coloring . . 1 ounce

Saccharine syrup . 1 quart

HONEY SYRUP.

Glucose

Saccharine syrup . 1 gallon
Sugar coloring . 1 ounce
Extract vanilla . 1 teaspoonful

. . 15 pounds

Mix.

The above syrup will give good satisfaction wherever used, and costs about 30 cents per gallon.

NEW ORLEANS SYRUP.

Glucose . . . 15 pounds
Common cane molasses ½ gallon
Water . . . 1 gallon
Saccharine syrup . 1 gallon
Extract vanilla . . ¼ ounce

Mix well.

BOGUS HONEY.

Glucose	15 pounds
Saccharine syrup No. 2.	1 gallon
Salicylic acid solution	1/4 ounce
Essence of Rose .	1/4 ounce

BOGUS HONEY No. 2.

Glucose	15 pounds
Saccharine syrup No. 2.	1 gallon
Salicylic acid solution	1/4 ounce
Strained honey .	1 quart

SUGAR SYRUPS.

The formulas given under this head are standard, pure and wholesome and should be in every household.

SIMPLE SYRUP.

Cold water . . 1 gallon
Granulated sugar . 10 pounds
Stir until dissolved and strain through

GOLDEN SYRUP.

Cold water . . . 1 gallon
Granulated sugar . 12 pounds
Stir until dissolved, then add
Sugar coloring . . ¼ ounce
Extract of vanilla . 1 teaspoonful
Strain.

IMITATION HONEY.

Pure and wholesome.

In kettle over fire,

Bring to a boil, stir a very little and strain through cloth.

The house wife who makes the above, will discover that it is superior to much of the so-called honey she has used.

MAPLE SYRUP.

In kettle over fire,

Water 1½ gallon

Granulated sugar . . . 12 pounds

Powdered or crushed red oak bark
. . . 4 ounces

Boil 20 minutes and strain through cloth while hot.

CARAMEL OR SUGAR COLORING.

In kettle over fire,

Granulated sugar . 1 pound

Allow to burn black, but not to a crisp, then add, hot water 1 pint and boil until as thick as syrup and strain through cheese cloth.

IMITATION JELLIES.

The amount of bogus jelly consumed in this country, is simply enormous, and the most of it is not fit to be used for food.

These vile compounds are composed of glucose, saccharine, acids, factitious extracts and poisonous coloring matter, and while they are bad enough for a grown up person to eat, they are much worse for children.

We give a few formulas for jellies made from glucose that are not harmful in small quantities.

APPLE JELLY.

Glucose 1 quart No. 2 Saccharine syrup. 1 pint Acid solution 1/4 ounce Extract apple or apple ether 10 drops Mix well.

STRAWBERRY JELLY.

Glucose . . . 1 quart No. 2 Saccharine syrup. 1 pint Acid solution . . 1 teaspoonful Extract of strawberry 1/2 teaspoonful Red coloring enough to bring it to the proper shade, mix well.

BANANNA JELLY.

Glucose . . . 1 quart No. 2 Saccharine syrup 1 pint Mix well.

Acid solution . . 1 teaspoonful Extract of Bananna 1/2 teaspoonful PEAR JELLY. Glucose . . . 1 quart No. 2 Saccharine syrup. 1 pint Acid solution . . ¼ ounce . 1/2 téaspoonful Extract of pear . 26

CHERRY JELLY.

Extract of Cherry Bark . 1 teaspoonful Color with red coloring, mix well.

BLACKBERRY JELLY.

Glucose . . . 1 quart

No. 2 Saccharine syrup 1 pint

Acid solution . . ¼ ounce

Extract Blackberry . ½ teaspoonful

Color with sugar coloring.

ACID SOLUTION.

The acid solution here given, is a standard one and may be used without any danger.

Citric acid . . . 2½ ounces
Tartaric acid . . . 2½ ounces
Hot water . . 8 ounces
Stir until dissolved, then add,

stir until dissolved, then add,

Dilute Phesphoric Acid ¼ ounce

ESSENCE.

The essences and extracts spoken of in this work, may be procured at any good drug store.

ESSENCE OF LEMON.

Good oil of Lemon . ¼ ounce
Alcohol . . 4 ounces
Shake well.

ESSENCE OF ORANGE.

Oil of Orange . . ¼ ounce Alcohol . . . 4 ounces Shake well.

ESSENCE OF PEAR.

IVIIX

ESSENCE OF ROOT BEER.

Alcohol . . . 4 ounces
Oil of Sassafras . . . 4 ounce
Oil of Winter green . ½ ounce

Mix.

(OR SALICYLIC ACID

Alcohol . . . 5 ounces
Salicylic acid . . ½ ounce
Mix.

ESSENCE OF ROSE.

Oil of Rose . . . 10 drops
Alcohol 1 ounce
Shake well.

APPLE ESSENCE.

EXTRACT OF STRAWBERRY.

Alcohol . . . 2 ounces
Acetic Ether . . . 10 drops
Nitrous Ether . . . 30 drops
Farmac Ether : . . 10 drops

Butric Ether .		30 drops			
Oil of winter green		10 drops			
Amyl Acitate .		30 drops			
Amyl Butyrate .		20 drops			
Glycerine		30 drops			
Miy well					

EXTRACT OF BANANNA. Aldehyd . 10 drops Amyl Butyrate . ¼ ounce Butric Ether. . 1 teaspoonful Chloroform . . 10 drops Glycerine . 30 drops Alcohol 2 ounces

Mix

VINEGAR.

(DILUTE ACETIC ACID.)

A large amount of so called vinegar is placed on the market to day, at a cost of about ten cents per barrel, this vile compound is positively dangerous, and the manufacturer should be placed behind stone walls and iron bars.

Sulphuric and nitric acid is used with water, coloring and flavor.

Below we give some formulas for making vinegar by the quick process, that may be used in the household without danger.

CIDER VINEGAR.

Water . 1 gallon No. 8 Acetic acid. . 1 pint

Sugar coloring . . 1 teaspoonful

Mix.

To the above 10 drops of apple essence may be added, to give it more of the apple flavor.

PEAR VINEGAR.

Water 1 gallon No. 8 Acetic acid. 1 pint Essence of Pear . 10 drops Mix.

WHITE WINE VINEGAR.

Water. 1 gallon No. 8 Acetic acid. 1 pint

Mix.

STRAWBERRY VINEGAR.

Water . . . 6 quarts

No. 8 Acetic acid . . 1 pint

Extract of Strawberry . 10 drops

Color Red.

BAKING POWDER.

It is safe to say, that where one good baking powder is sold, there are many dangerous preparations forced on the public. Many of these are made up largely of alum and ammonia.

The following may be used without danger.

anger.			
Tartaric acid .		2	ounces
Cream of tartar.	•	1	ounce
Bicarbonate of soda	•	4	ounces
Corn starch .	•	° 6	ounces
Mix			
Cream of tartar.	•	2	ounces
Bicarbonate of soda	•	2	ounces
Potato starch .		4	ounces
Mix			
Tartaric acid .	٥	8	ounces
Bicarbonate of soda	. •	10	ounces
Potato starch .	•	12	ounces
Mix			

32

FRENCH MUSTARD.

We will say right here, that very little of this so-called mustard contains any mustard whatever. In fact it is composed mostly of buck wheat flour and potato starch, with capsicum and color.

The formulas we give here are good and make a nice condiment.

Buck wheat flour. . 1 pound
Dry mustard . . 1/4 pound
Mix with vinegar and color with sugar
coloring.

Potato starch . . 1 pound
Dry mustard . . ½ pound
Mix with white wine vinegar, color with
sugar coloring.

TREATMENT FOR OBESITY. (REDUCING FLESH.)

During the past years we have examined many preparations that were sold under fancy and high sounding names, and claiming to cure corpulency, and a large number of the preparations were found to be worse than useless, and

in many instances positively dangerous The man or womam who is carrying about too much fat is in great danger. And while too much fat is dangerous it is a constant annoyance and burden in every way.

This treatment is an honest, intelligent and successful one and we guarantee it in every respect. You incur no danger in taking it, you suffer no inconvenience, no pain or trouble whatever.

THE TREATMENT.

Powdered Rhubarb . 1 ounce Compound licorice powder ½ ounce Mix and make into 3 grain capsules.

Dose, one 20 minutes before each meal.

Pulverized citric acid . 1 ounce
Water . . . 1 pint

Dissolve and take one teaspoonful in one half glassful of water when thirsty.

Take a hot salt bath once a week, before bed time. Say 1 pint of salt dissolved in 10 gallons of water. Avoid constipation, exercise short of fatigue.

SUGGESTIONS for OBESITY DIET.

SOUPS, ETC.

Beef, mutton, and chicken broth, free from fat.

FISH.

All kinds.

MEATS.

Lean beef, lean mutton, chicken and game. Eggs.

VEGETABLES.

Asparagus, cauliflower, onions, celery, cresses, spinach, white cabbage, tomatoes, radishes, lettuce greens, squash and turnips.

BREAD AND FARINACEOUS ARTICLES. Stale bread and dry toast, gluten biscuits.

DESSERTS, FRUITS, ETC.

Grapes, oranges, cherries, berries, acid fruit.

DRINKS.

Water, tea and coffee without sugar or cream. Saccharine syrup may be used in tea and coffee.

AVOID

Fat, thick soups, sauces, spices, hominy, oat meal, macaroni, white and sweet potatoes, rice, beets, carrots, starches, parsnips, puddings, pies, cakes, all sweets, milk, alcoholic drinks, malt liquors. Avoid water in excess.

TREATMENT FOR THE DRINK HABIT.

There are many institutions in this country who claim to treat and cure drunkenness, most of them are humbugs and not worthy of any consideration whatever.

We have made a careful analysis of the preparations used in quite a number of these institutions, and found them to be something like the following:

THE TONIC.

Cinchona, Nux Vomica, Atropine and Ammonia.

THE INJECTION.

Atropine or Strychnine and sometimes both.

These humbug institutions claim that their treatment will remove all desire for intoxicants. In fact take our treatment they cry and you can't drink whiskey if you try, any way you can't keep it down. And all this is very true, should you drink the whiskey or beer they give you while undergoing treatment, because they contain drugs of such a nature, which makes it impossible for the stomach to retain them.

Perhaps John Soak, after being treated a few days is given a test, as it is called, that is a drink of whiskey or beer if he prefers it, this whiskey or beer contains ipecacuanha or appia morphia, and, as a result, in a few minutes John has a most violent fit of vomiting, "Oh, Oh," he gasps, "this treatment has fixed me, I can't drink any more whiskey." After he leaves the institution the thought

of how he suffered after taking these tests will keep him sober for at least a week, while in some cases (but very rare) for years.

HOME CURE FOR DRUNKENNESS.

Fluid extract of cinchona 1 ounce Nux Vomica 1/8 ounces 1/2 Atropine . grain Aromatic spirits of ammonia \frac{1}{8} ounces Simple syrup . 2 ounces Water to make . 8 ounces

Dose, one teaspoonful every three hours.

The above has been taken in a large number of cases with good results, where nerves and stomach are in poor condition, this tonic helps wonderfully.

TREATMENT FOR EMACIATION. (TO BUILD UP FLESH.) THE TONIC.

One teaspoonful after meals.

MALT EXTRACT.

One tablespoonful one hour before meals.

Take moderate exercise, keep regular hours, avoid excesses. For bath, use sponge and tepid water.

WHAT TO EAT.

Oat meal, corn meal, rice, hominy, wheat, starches, jellies, puddings, bread, biscuits, potatoes, carrots, beets, fat meats, thick soups, sugar, milk, cream, sweet fruits, avoid alchohlic and malt liquors and all sour matter.

BEER.

The consumption of beer in the United States has grown to enormous proportions, as the quantity of beer increases the quality decreases, until much of the output is slop and nothing better. Lager beer is supposed to be made from barley and hops and to contain four per cent. alcohol. Glucose being much cheaper than malt made from barley, and extract

of bitter aloes is cheaper than hops, therefore these are largely used.

As an anti-ferment Salicylic acid is used in large quantities. Therefore much of the beer sold to-day is positively dangerous and is a fruitful cause of the production of many diseases.

Many who drink beer claim that it makes them strong, and that it is a food. This is all bosh, in a barrel of beer there is not as much nutriment as in a single loaf of rye bread.

BAY RUM.

A large amount of the liquid sold under this name is only a base imitation, and unfit for use.

In glass jar or crock:

Bay leaves . . 4 ounces
Alcohol . . . 1 pint
Water . . . 1 quart

Keep well covered and allow to stand six days, stirring two or three times each day.

Filter through paper, or two or three times with cotton flannel.

HAIR RESTORER.

Lac · Sulphur . . 1 ounce
Acitate of Lead . . ½ ounce
Alcohol . . . 8 ounces
Common salt . . ¼ ounce
Bay Rum . . . 2 ounces
Water to make . . ½ gallon
Pumice stone . . 2 ounces

Shake well and filter through paper.

DANDRUFF CURE.

Water 1	quart
Alcohol 8	ounces
Hydrochloric Acid . 1/8	ounce
Sulphate of Quinine . 1/2	ounce
Tincture of Canthardis 1/8	ounce
Bay Rum 4	ounces
Pumice stone 2	ounces
shake well, filter through paper.	

OLUNINE TONIC

QUININE TONIC.							
Water			•	1	quart		
Alcohol		•		8	ounces		
Sulphate	of Qu	inine	e .	1/8	ounce		
Tincture			rdis	1/8	ounce		
Extract o	f Rose			1/2	ounce		

Pumice stone . . 2 ounces Shake well, filter through paper.

Color red.

ROSE TOILET WATER.

Essence of Rose . 1 ounce
Alcohol . . . 8 ounces
Water . . . 1 quart
Pumice stone . . 2 ounces

Shake well, filter through paper.

Color pink.

VIOLET TOILET WATER

Alcohol . . . 8 ounces

Extract of Violet . ½ ounce

Water . . . 1 quart

Pumice stone . . 2 ounces

Shake well filter through paper.

Color with violet color or ink.

LILAC TOILET WATER.

Alcohol . . . 8 ounces

Extract of Lilac . ½ ounce

Water . . 1 quart

Pumice stone . 2 ounces

Shake well, filter through paper.

Color with violet coloring.

ROSE PERFUME.

Alcohol . . . 2 ounces
Oil of Rose . . 10 drops

Shake well, color pink.

HONEY SUCKLE PERFUME.

Alcohol . . . 2 ounces
Oil of Rose . . 5 drops
Oil of Lemon . . 10 drops
Oil of Orange . . 10 drops
Oil of Burgamot . 10 drops
Oil of Lavender . 2 drops
Shake well, color yellow.

SWEET LAVENDER PERFUME.

Alcohol . . . 2 ounces
Oil of Lavender flower 1/8 ounce

NEW MOWN HAY PERFUME.

Alcohol . . . 2 ounces
Oil of Myrrhbane . 10 drops
Oil of Lemon Grasse 20 drops
Extract of Vanilla . 10 drops

Shake well.

VIOLET PERFUME.

Alcohol . . . 2 ounces
Oil of Violets . . 10 drops
Extract of Orris . . 5 drops
Shake well, color violet.

GERMAN COLOGNE.

Alcohol . . . 2 ounces
Oil of Lemon Grasse . 20 drops
Oil of Burgamot . 20 drops
Oil of Orange . . 10 drops
Oil of Rose . . 2 drops
Oil of winter green . 2 drops
Shake well, filter through paper.

NOTE: The above perfumes would be much cleaner and brighter, by the addition of a little Pumice stone, and filtering through paper.

FACE POWDER.

Powdered carbonate of magnesia . . 1 ounce
Rose perfume . . 30 drops

Mix well.

FACE POWDER PINK.

Carbonate of magnesia 1 ounce
Carmine . . . 10 grains
Mix well.

TOOTH POWDER.

Orris powder . . 1 ounce
French chalk . . 1 ounce
Mix, perfume.

TOOTH POWDER No. 2.

Orris powder . . 1 ounce
Powdered Pumice stone
Mix.

TOOTH POWDER No. 3.

Take Pulverized French Chalk.

INKS.

SHOE MAKERS' INK.

(Or burnishing ink.)

In kettle over fire,

Water . . . 1 gallon
Extract of logwood . 4 ounces
When dissolved add,

Bi-Chromate of Potash ½ ounce

Stir for two or three minutes, take off fire and when cool add,

Vinegar . . . 1 pint

The above costs ten cents per gallon and sells for about one dollar.

HARNESS INK.

In kettle over fire,

Water . . . 1 gallon

Extract of Logwood . 4 ounces

When dissolved add,

Bi-Chromate of Potash ½ ounce

Yellow Prussiate of Potash 30 grains

Stir until dissolved, take off fire and

when cool add

No. 8 Acetic acid . 4 ounces

BLACK WRITING INK.

In kettle over fire

Water . . 6 quarts

Extract of logwood . 4 ounces

When dissolved add,

Bi-Chromate of Potash 1 ounce

Stir until dissolved, allow to cool and it is ready for use.

The above costs about 10 cents per gallon and sells for two dollars.

BLACK WRITING INK No. 2.

Black water soluble Aniline 1 ounce
Boiling water . . 1 gallon
Stir until dissolved, when cool add
Acetic acid . . 2 ounces

PURPLE INK.

Boiling water . . 1 gallon
Purple or Violet water
soluble Aniline . 1 ounce
Acetic acid . . 2 ounces
Stir until dissolved.

Costs about 15 cents, sells for 75 cents to one dollar per quart.

RED BLUE and GREEN INKS.

Make same as purple, using Red, Blue or Green Aniline in place of Purple Aniline.

MUCILAGE.

(THE KIND USED ON POSTAGE STAMPS.)

Water . . 10 ounces

Mix.

MUCILAGE No. 2.

Gum Tragacanth . 1 ounce
Cold water . ½ gallon
Allow to stand 24 hours stirring well a
few times.

If too thick add water.

LAUNDRY BLUING.

Soluble blue . . 1 ounce
Oxalic acid . . 1 ounce
Water . . . 1 gallon
Allow to stand 48 hours, stirring well a
few times.

Strain through cloth.

The above makes a good blue ink as well.

STARCH POLISH.

White wax . . 1 ounce
Spermaceti . . 1 ounce

48

Melt together, about ½ ounce to quart of starch.

STARCH POLISH No. 2.

White wax . . 1 ounce
Spermaceti . . 2 ounces
Sterine . , , ½ ounce

Melt together.

HARNESS DRESSING.

Wood Alcohol (Poison) 1 quart
Garnet shellac . ½ pound
Cotton seed oil . ¼ ounce

Keep well covered, stirring well three times each day for four days, or until dissolved, then add

Black water soluble Aniline 1 ounce Stir well and it is ready for use.

BLACK SHOE DRESSING. (WATERPROOF)

Same way as Harness Dressing.

RUSSET SHOE or HARNESS DRESSING.

Same way as black only leave out the color.

RUSSET SHOE CLEANER.

Water . . . 1 gallon
Gum Tragacanth . 4 ounces
Allow to stand 24 hours, stirring a few
times, then add

Oxalic Acid . . 4 ounces

Allow to stand 12 hours stirring a few times, then add

Red water soluble Aniline 20 grains Dissolved in a little water, add

Spirits of Camphor . ½ ounce Mixing well.

Water now may be added to bring it to the right consistency.

BLACK SHOE POLISH.

In kettle over fire dissolve

Black burnishing wax 4 ounces In covered can,

Turpentine . . 8 ounces

Place the can in a vessel containing water, over fire until the Turpentine becomes hot, then mix the wax and turpentine together.

Allow to cool, say one half, then pour into cans that have tight fitting covers.

RUSSET SHOE POLISH.

Make same way as black, using yellow burnishing wax in place of black.

LIQUID GLUE.

In can or crock,

Acetic acid . . 1 pint

Best white glue . 1/2 pound

Place can in water over fire until dissolved.

CEMENT THAT WILL MEND ANYTHING.

In kettle over fire,

Acetic acid . . 1 pint

French Isinglass . ½ pound

Stir until dissolved.

Bottle while hot.

PIANO POLISH.

Linseed oil . . 4 ounces
Alcohol . . . 4 ounces

Balsam of Fir . . ½ ounce

Sulphuric Ether . ¼ ounce

Shake well.

Place on with woolen cloth.

The above polish is the best on earth.

ELECTRIC POWDER.

For cleaning copper, brass, gold, silver and glass,

Best whiting . . 1 pound Cream of Tartar . . 1 ounce Calcined magnesia . 1 ounce

Mix.

Rub on with damp cloth, and polish with dry one.

SEALING WAX.

In kettle over fire,

Bees wax . . . 2 ounces

Rosin . . . 4 ounces

Turpentine . . 1 ounce

Venetian red . . ¼ ounce

Dissolve.

SILVER-PLATING FLUID.

Nitrate of Silver . ¼ ounce
Cyanide of Potassium 3 ounces
Distilled water . . 4 ounces

Shake until dissolved, then add

Whiting . . . 1 ounce

Rub on with cloth.

BEST MATCHES.

In mortar,

Water . . . 10 grains
Dexterine . . . 2 grains
Chlorate of Potash . 2 grains
Red lead . . . 2 grains
Peroxide of Manganese 3 grains
Golden Sulphide of Antimony 2 grains
Amorphous Phosphorous 3 grains

Mix well.

Dip sticks in the above and allow to dry.

NOTE: The above preparation is dangerous to make, it will explode while mixing if dry. The writer received \$2500.00 for this formula.

TO REMOVE INK FROM PAPER.

Chlorate of lime . 1 pound Water . . 1 gallon

Shake well, allow to stand 24 hours, and strain through cloth.

To one ounce of the above add

Acetic acid . . 1 teaspoonful

REPRODUCE.

For transferring pictures from newspaper, magazines, etc.,

Water	1 pint
Turpentine .	4 ounces
Sulphuric Ether .	½ ounce
Potash (Babbits)	10 grains
Soap Powder .	½ ounce

Shake well.

Wet the picture with brush, dry a little with blotting paper, then place on picture your blank paper, and rub with spoon.

The above formula is very valuable.

FLASH LIGHT POWDER.

For taken pictures at night the following flash light is safe, cheap, and there is no better sold.

Powdered sulphur . 30 grains
Yellow prussiate of potash 60 grains
Chlorate of potash . 180 grains
Powdered metal magnesium 120 grains
Powder each chemical separately and
mix together.

GUN POWDER.

Will throw No. 6 shot one hundred yards, and kill birds.

Chlorate of potash . 1 ounce
Yellow Prussiate of potash ½ ounce
Granulated sugar . ½ ounce
Nitrate of potash . 20 grains
Red lead . . ½ ounce

Pulverize each chemical separately then mix together.

WEIGHTS and MEASURES. DRY MEASURE.

20	grains		1 scruple
3	scruples	•	1 drachm
8	drachms		1 ounce
12	ounces		1 pound

FLUID MEASURE.

I DOID WILL BOILE.								
60	minims or	drop	s		1	drachm		
8	drachms		•	•	1	ounce		
16	ounces			•	1	pint		
8	pints	•			1	gallon		
	Modicinos	000 1	h h	4 4		. 1 . 1		

Medicines are bought and sold by avoirdupois weight.

PERCENTAGE OF ALCOHOL IN VARIOUS BEVERAGES.

Beer			•	•		4.
Porter						4.5
Ale						7.4
Cider						8.6
Maselle					•	9.6
Perry						8.8
Elder		•			•	9.3
Tokay						10.2
Orange						11.2
Bordeau						11.5
Hock						11.6
Goosberry	У					11.8
Champag	ne					12.2
Claret						13.3
Burgundy	,					13.6
Malaga						19.3
Canary						18.8
Sherry			,			19.
Vermouth	l					19.
Cape						19.2
Malmsey						19.7
Marsala						20.
Ratafia						21.

56

PERCENTAGE OF ALCOHOL IN VARIOUS BEVERAGES.—Con.

Port					•	23.
Curacoa						27.
Aniseed			•			33.
Marusch	ino					34.
Chartre	ıse					43.
Gin	•					51.6
Brandy						53.4
Rum				٠.		5 7.7
lrish wh	iskey	7			٠.	53.9
Scotch w				54.3		

Spirits are said to be proof, when they contain 57 per cent.



PROFESSOR

DUKE H. BASHFORD

MANUFACTURING AND ANALYTICAL CHEMIST

(With The Home Chemical and Publishing Co., of Waukesha, Wis.)

ANALYSIS, EXPERT WORK, FORMULAS
FURNISHED, TERMS REASONABLE, CORRESPONDENCE
SOLICITED

Address all Communications to

M. B. Bird, Secretary, WAUKESHA, WIS.







Frazion



















LIBRARY OF CONGRESS 0 014 183 426 5